# FACULTY OF PHARMACEUTICAL SCIENCES

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## PROGRAMME STRUCTURE

(As Per Pharmacy Council of India)

# MASTER OF PHARMACY (PHARMACEUTICAL QUALITY ASSURANCE)

**Effective from Academic Year: 2025-26**

# Programme Structure Summary

| SEMESTER 1 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Course Group | Course Code | Course Name | Cr | Teaching Scheme | | | | INT(T) Max./ Passing | EXT(T) Max./ Passing | INT(P) Max./ Passing | EXT(P) Max./ Passing | Grand Total Max./ Passing |
| | | | | T | P | Tu | Cont. Hrs | | | | | |
| CORE | 108300101 | MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES | 4 | 4 | – | – | 4 | 25/10 | 75/30 | – | – | 100/50 |
| CORE | 108330102 | QUALITY MANAGEMENT SYSTEM | 4 | 4 | – | – | 4 | 25/10 | 75/30 | – | – | 100/50 |
| CORE | 108330103 | QUALITY CONTROL AND QUALITY ASSURANCE | 4 | 4 | – | – | 4 | 25/10 | 75/30 | – | – | 100/50 |
| CORE | 108330104 | PRODUCT DEVELOPMENT AND TECHNOLOGY TRANSFER | 4 | 4 | – | – | 4 | 25/10 | 75/30 | – | – | 100/50 |
| CORE | 108330105 | PHARMACEUTICAL QUALITY ASSURANCE PRACTICAL – I | 6 | – | 12 | – | 12 | – | – | 50/20 | 100/40 | 150/75 |
| CORE | 108330106 | SEMINAR/ASSIGNMENT | 4 | – | 8 | – | 8 | – | – | 100/40 | – | 100/50 |

\# T = Theory, P = Practical, Tu = Tutorial

| SEMESTER 2 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Course Group | Course Code | Course Name | Cr | Teaching Scheme | | | | INT(T) Max./ Passing | EXT(T) Max./ Passing | INT(P) Max./ Passing | EXT(P) Max./ Passing | Grand Total Max./ Passing |
| | | | | T | P | Tu | Cont. Hrs | | | | | |
| CORE | 108330201 | HAZARD AND SAFETY MANAGEMENT | 4 | 4 | – | – | 4 | 25/10 | 75/30 | – | – | 100/50 |
| CORE | 108330202 | PHARMACEUTICAL VALIDATION | 4 | 4 | – | – | 4 | 25/10 | 75/30 | – | – | 100/50 |
| CORE | 108330203 | AUDITS AND REGULATORY COMPLIANCE | 4 | 4 | – | – | 4 | 25/10 | 75/30 | – | – | 100/50 |
| CORE | 108330204 | PHARMACEUTICAL MANUFACTURING TECHNOLOGY | 4 | 4 | – | – | 4 | 25/10 | 75/30 | – | – | 100/50 |
| CORE | 108330205 | PHARMACEUTICAL QUALITY ASSURANCE PRACTICAL – II | 6 | – | 12 | – | 12 | – | – | 50/20 | 100/40 | 150/75 |
| CORE | 108330206 | SEMINAR/ASSIGNMENT | 4 | – | 8 | – | 8 | – | – | 100/40 | – | 100/50 |

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| SEMESTER 3 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Course Group | Course Code | Course Name | Cr | Teaching Scheme | | | | INT(T) Max./ Passing | EXT(T) Max./ Passing | INT(P) Max./ Passing | EXT(P) Max./ Passing | Grand Total Max./ Passing |
| | | | | T | P | Tu | Cont. Hrs | | | | | |
| CORE | 108300301 | JOURNAL CLUB - I | 1 | 1 | - | – | 1 | 25/10 | – | – | – | 25/13 |
| CORE | 108300302 | RESEARCH METHODOLOGY AND BIOSTATISTICS* | 4 | 4 | - | – | 4 | 25/10 | 75/30 | – | – | 100/50 |
| CORE | 108300303 | DISCUSSION/ PRESENTATION (PROPOSAL PRESENTATION) | 2 | 2 | - | – | 2 | 50/20 | – | - | - | 50/25 |
| CORE | 108300304 | RESEARCH WORK | 14 | - | 28 | – | 28 | – | – | 50/20 | 300/120 | 350/175 |

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| SEMESTER 4 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Course Group | Course Code | Course Name | Cr | Teaching Scheme | | | | INT(T) Max./ Passing | EXT(T) Max./ Passing | INT(P) Max./ Passing | EXT(P) Max./ Passing | Grand Total Max./ Passing |
| | | | | T | P | Tu | Cont. Hrs | | | | | |
| CORE | 108300401 | JOURNAL CLUB - II | 1 | 1 | – | – | 1 | 25/10 | – | – | – | 25/13 |
| CORE | 108300402 | DISCUSSION/ PRESENTATION | 3 | 3 | – | – | 3 | 75/30 | – | – | – | 75/38 |
| CORE | 108300403 | RESEARCH WORK – FINAL PRESENTATION | 16 | – | 32 | – | 32 | – | – | 100/40 | 300/120 | 400/200 |
| CORE | 108300404 | CO-CURRICULAR ACTIVITIES | 2 | - | 4 | – | – | – | – | 50/20 | – | 50/25 |

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# Programme Outcomes

| PO-1 | **Pharmaceutical Knowledge:** Students will have strong knowledge and skills for analysis of Pharmaceutical drug, dosage form, excipients, food & cosmetics and ability to apply them in research and development. |
|------|---|
| PO-2 | **Core Competence:** Students will be competent in the GMP, Regulatory affairs, Quality assurance, Pharmaceutical Analysis and statistical evaluation of data required in Pharmaceutical Industry. |
| PO-3 | **Investigation of complex research problem:** Student will be able to solve complex analytical and research problem related to drug and impurity analysis. |
| PO-4 | **Pharmacy Professionalism and Ethics:** Students will be inculcated with professional and ethical values with respect to pharmacy profession and effective communication skills. |
| PO-5 | **Lifelong learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self- assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis. |